AMENDMENTS TO THE CLAIMS

In the Claims:

Please cancel Claims 1, 12, and 23 - 26. Please amend Claims 2 – 10, 17, 19, 20, and 22; and add new Claims 33 - 58 as follows:

1. (Cancelled)

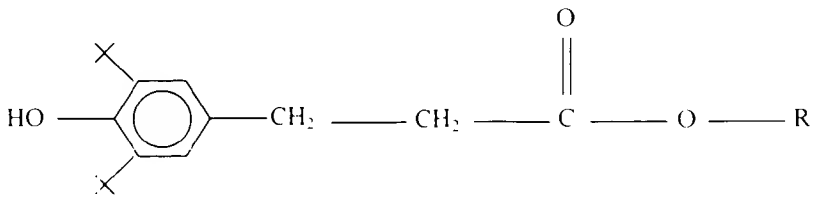
2. (Currently Amended) An antioxidant system ~~of Claim 1~~ comprising sulfurized isobutylene and one or more hindered phenols wherein the hindered phenols comprise:

   ~~BHT~~ butylated hydroxy toluene; or

   ~~and~~ 3,5-di-t-butyl 4-hydroxy phenol propionate, C_7-C_9 alkyl ester; or mixtures or combinations thereof.

3. (Currently Amended) An antioxidant system ~~of Claim 1~~ comprising sulfurized isobutylene and one or more hindered phenols wherein the hindered phenols comprise ~~BHT~~ butylated hydroxy toluene.

4. (Currently Amended) An antioxidant system ~~of Claim 1~~ comprising sulfurized isobutylene and one or more hindered phenols wherein one or more hindered phenols have the general formula:



wherein R is a C_7 to C_9 alkyl group.

5. (Currently Amended) An antioxidant system of Claim 4, wherein the antioxidant system further comprises ~~BHT~~ butylated hydroxy toluene.

6. (Currently Amended) An antioxidant system ~~of Claim 1~~ comprising sulfurized isobutylene and one or more hindered phenols wherein the one or more hindered phenols comprise 3,5-di-t-butyl 4-hydroxy phenol propionate, C_7-C_9 alkyl ester.

7. (Currently Amended) Lubricating oil comprising a base oil and the antioxidant of Claim ~~1~~ 2.

8. (Currently Amended) Lubricating oil comprising a base oil and the antioxidant system of Claim ~~2~~ 3.

9. (Currently Amended) Lubricating oil comprising a base oil and the antioxidant system of Claim ~~3~~ 4.

10. (Currently Amended) Lubricating oil comprising a base oil and the antioxidant system of Claim 4 5.

11. (Original) A method of lubricating engines comprising contacting the lubricating oil of Claim 7 with one or more engines.

12. (Cancelled)

13. (Original) A method of lubricating engines comprising lubricating one or more engines with the lubricating oil of Claim 8.

14. (Original) A method of lubricating engines comprising contacting one or more engines with the lubricating oil of Claim 9.

15. (Original) A method of lubricating engines comprising contacting one or more engines with lubricating oil of Claim 10.

16. (Original) A method of Claim 15 wherein the engine is a natural gas fueled engine.

17. (Currently Amended) Lubricating oil comprising:

about 1 wt. % to about 8 wt. % of one or more dispersants;

about 1 wt. % to about 8.5 wt. % of one or more detergents;

about 0.2 wt. % to about 1.5 wt. % of one or more wear inhibitors;

about 0.01 wt. % to about 0.5 wt. % sulfurized isobutylene;

about 0.1 wt. % to about 3 wt. % butylated hydroxy toluene;

and about 0.1 wt. % to about 3 wt. % 3,5-di-t-butyl 4-hydroxy phenol propionate, C_7-C_9 alkyl ester.

18. (Original) A method of lubricating engines comprising lubricating one or more engines with the lubricating oil of Claim 17.

19. (Currently Amended) A method of making the lubricating oil of Claim 17 comprising combining:

about 1 wt. % to about 8 wt. % of one or more dispersants;

about 1 wt. % to about 8.5 wt. % of one or more detergents;

about 0.2 wt. % to about 1.5 wt. % of one or more wear inhibitors;

about 0.01 wt. % to about 0.5 wt. % sulfurized isobutylene;

about 0.1 wt. % to about 3 wt. % butylated hydroxy toluene; and

about 0.1 wt. % to about 3 wt. % 3,5-di-t-butyl 4-hydroxy phenol propionate, C_7-C_9 alkyl ester in any order.

20. (Currently Amended) Lubricating oil comprising:

a major amount of one or more base oils;

about 1.25 wt. % to about 6 wt. % of one or more dispersants;

about 2 wt. % to about 6 wt. % of one or more detergents;

about 0.3 wt. % to about 0.8 wt. % of one or more wear inhibitors;

about 0.02 wt. % to about 0.45 wt. % sulfurized isobutylene;

about 0.20 wt. % to about 2.5 wt. % butylated hydroxy toluene; and

about 0.20 wt. % to about 2.5 wt. % 3,5-di-t-butyl 4-hydroxy phenol propionate, C_7-C_9 alkyl ester.

21. (Original) A method of lubricating engines comprising contacting one or more engines with the lubricating oil of Claim 20.

22. (Currently Amended) A method of making the lubricating oil of Claim 20 comprising combining:
a major amount of one or more base oils;

about 1.25 wt. % to about 6 wt. % of one or more dispersants;

about 2 wt. % to about 6 wt. % of one or more detergents;

about 0.3 wt. % to about 0.8 wt. % of one or more wear inhibitors;

about 0.02 wt. % to about 0.45 wt. % sulfurized isobutylene;

about 0.20 wt. % to about 2.5 wt. % butylated hydroxy toluene; and

about 0.20 wt. % to about 2.5 wt. % 3,5-di-t-butyl 4-hydroxy phenol propionate, C_7-C_9 alkyl ester in any order.

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Original) Lubricating oil comprising:

about 0.02 wt. % to about 2 wt. % sulfurized isobutylene;

about 1 wt. % to about 8 wt. % of one or more dispersants;

about 1 wt. % to about 8.5 wt. % of one or more of phenates, salicylates and sulfonates;

about 0.2 wt. % to about 1.5 wt. % of one or more wear inhibitors; and one or more of Group I, II, III and IV base oil.

28. (Original) A method of making the lubricating oil of Claim 27 comprising blending about 0.02 wt. % to about 2 wt. % sulfurized isobutylene;

about 1 wt. % to about 8 wt. % of one or more dispersants;

about 1 wt. % to about 8.5 wt. % of one or more of phenates, salicylates and sulfonates;

about 0.2 wt. % to about 1.5 wt. % of one or more wear inhibitors; and

one or more of Group I, II, III and IV base oil in any order with agitation and at a temperature sufficient to blend the components but not high enough to degrade the components.

29. (Original) A method of lubricating an engine comprising lubricating the engine with the lubricating oil of Claim 27.

30. (Original) Lubricating oil comprising:

a major amount of one or more base oils;

about 1.25 wt. % to about 6 wt. % of one or more dispersants;

about 2 wt. % to about 6 wt. % of one or more detergents;

about 0.3 wt. % to about 0.8 wt. % of one or more wear inhibitors; and

about 0.04 wt. % to about 1.75 wt. % sulfurized isobutylene.

31. (Original) A method of making the lubricating oil of Claim 30 comprising combining about 1.25 wt. % to about 6 wt. % one or more dispersants;

about 2 wt. % to about 6 wt. % of one or more detergents;

about 0.3 wt. % to about 0.8 wt. % of one or more wear inhibitors; and

about 0.04 wt. % to about 1.75 wt. % sulfurized isobutylene

in any order.

32. (Original) A method of lubricating engines comprising contacting the lubricating oil of Claim 30 with one or more engines.

33. (New) The antioxidant system of Claim 2 further wherein the concentration ratio of sulfurized isobutylene to hindered phenols is 0.004 to 1.13.

34. (New) The antioxidant system of Claim 3 further wherein the concentration ratio of sulfurized isobutylene to hindered phenols is 0.004 to 1.13.

35. (New) The antioxidant system of Claim 4 further wherein the concentration ratio of sulfurized isobutylene to hindered phenols is 0.004 to 1.13.

36. (New) The antioxidant system of Claim 5 further wherein the concentration ratio of sulfurized isobutylene to hindered phenols is 0.004 to 1.13.

37. (New) The antioxidant system of Claim 6 further wherein the concentration ratio of sulfurized isobutylene to hindered phenols is 0.004 to 1.13.

38. (New) The antioxidant system of Claim 2 wherein said system is a natural gas engine oil antioxidant system.

39. (New) The antioxidant system of Claim 3 wherein said system is a natural gas engine oil antioxidant system.

40. (New) The antioxidant system of Claim 4 wherein said system is a natural gas engine oil antioxidant system.

41. (New) The antioxidant system of Claim 5 wherein said system is a natural gas engine oil antioxidant system.

42. (New) The antioxidant system of Claim 6 wherein said system is a natural gas engine oil antioxidant system.

43. (New) Lubricating oil comprising a base oil and the antioxidant of Claim 6.

44. (New) Lubricating oil comprising:

about 1 wt. % to about 8 wt. % of one or more dispersants;

about 1 wt % to about 8.5 wt. % of one or more detergents;

about 0.2 wt. % to about 1.5 wt. % of one or more wear inhibitors;

about 0.01 wt. % to about 0.5 wt. % sulfurized isobutylene;

and about 0.1 wt. % to about 3 wt. % 3,5-di-t-butyl 4-hydroxy phenol propionate, C_7-C_9 alkyl ester.

45. (New) A method of lubricating engines comprising lubricating one or more engines with the lubricating oil of Claim 44.

46. (New) Lubricating oil comprising:

about 1 wt. % to about 8 wt. % of one or more dispersants;

about 1 wt. % to about 8.5 wt. % of one or more detergents;

about 0.2 wt. % to about 1.5 wt. % of one or more wear inhibitors;

about 0.01 wt. % to about 0.5 wt. % sulfurized isobutylene;

and about 0.1 wt. % to about 3 wt. % butylated hydroxy toluene.

47. (New) A method of lubricating engines comprising lubricating one or more engines with the lubricating oil of Claim 46.

48. (New) The method of Claim 11 wherein the engine is a natural gas fueled engine.

49. (New) The method of Claim 13 wherein the engine is a natural gas fueled engine.

50. (New) The method of Claim 14 wherein the engine is a natural gas fueled engine.

51. (New) The lubricating oil of Claim 17 wherein said lubricating oil is a natural gas engine lubricating oil.

52. (New) The method of Claim 18 wherein said engine is a natural gas fueled engine.

53. (New) The lubricating oil of Claim 20 wherein said lubricating oil is a natural gas engine lubricating oil.

54. (New) The method of Claim 21 wherein said engine is a natural gas fueled engine.

55. (New) The lubricating oil of Claim 27 wherein said lubricating oil is a natural gas engine lubricating oil.

56. (New) The method of Claim 29 wherein said engine is a natural gas fueled engine.

57. (New) The lubricating oil of Claim 30 wherein said lubricating oil is a natural gas engine lubricating oil.

58. (New) The method of Claim 32 wherein said engine is a natural gas fueled engine.

59. (New) The lubricating oil of Claim 7 wherein said lubricating oil has a total ash content of 0.15 wt. % to 0.6 wt. % as determined by ASTM D874.

60. (New) The lubricating oil of Claim 27 wherein said lubricating oil has a total ash content of 0.15 wt. % to 0.6 wt. % as determined by ASTM D874.

61. (New) The lubricating oil of Claim 30 wherein said lubricating oil has a total ash content of 0.15 wt. % to 0.6 wt. % as determined by ASTM D874.

62. (New) The lubricating oil of Claim 44 wherein said lubricating oil has a total ash content of 0.15 wt. % to 0.6 wt. % as determined by ASTM D874.

63. (New) The lubricating oil of Claim 46 wherein said lubricating oil has a total ash content of 0.15 wt. % to 0.6 wt. % as determined by ASTM D874.